Notice of Allowability	Application No.	Applicant(s)
	09/701,884	JEFFERSON ET AL.
	Examiner	Art Unit
	Kevin Quinto	2826
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313) or other appropriate con	D in this application. If not included
1. This communication is responsive to 30 October 2003.		
2. The allowed claim(s) is/are 1-32.		
3. The drawings filed on <u>05 December 2000</u> are accepted by	the Examiner.	nathan J. Flynn Supervisøry patent examiner
4. ☑ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☑ None of the:		d) or (F) ECHNOLOGY CENTER 2800
1. Certified copies of the priority documents have	been received.	
2. Certified copies of the priority documents have	been received in Applica	ation No
3. Li Copies of the certified copies of the priority do	cuments have been recei	ved in this national stage application from the
miternational bureau (PC) Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to t ENT of this application.	file a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	o reason(s) why the bath	XAMINER'S AMENDMENT or NOTICE OF or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.	
(a) ☐ Including changes required by the Notice of Draftsperso	on's Patent Drawing Revi	ew (PTO-948) attached
i) Li nereto or 2) Li to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment	or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on	the drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT For	it of PIOLOGICAL MAR	FR 1.121(d).
Attachment(s)		
1. ☑ Notice of References Cited (PTO-892)	5. Notice of I	nformal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview S	Summary (PTO-413).
 Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No./Mail Date 	Paper No. 7. ☐ Examiner's	/Mail Date Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's	Statement of Reasons for Allowance
of Biological Material	9. Other	

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments, filed October 30, 2003, with respect to claims 1-32 have been fully considered and are persuasive. The rejection of claims 1-7, 9, 10, 12-21, 23-26, 29, 30, and 32 has been withdrawn.
- 2. The examiner concurs with the applicant's arguments regarding the combination of the Kizuki, Bestwick, Chapple-Sokol, and Doyle references.

Allowable Subject Matter

- Claims 1-32 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: the examiner is unaware of any single electron transistor which uses a wire structure formed in a trench between the source and the drain such that the wire is preferentially grown on a specific crystal plane (the bottom of the trench or (100) plane) relative to the sidewalls of the trench.
- 5. Park et al. (USPN 5,942,790) discloses a device which can act as a single electron transistor. However there is no disclosure of a wiring structure formed in a trench. Thus the Park device does not teach the applicant's invention.
- 6. Fukuda (USPN 5,945,686) discloses a single electron transistor. Such as the Park device discussed above, there is no disclosure of a wiring structure formed in a trench. Thus the Fukuda device does not teach the applicant's device.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quinto whose telephone number is (571) 272-1920. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).